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Date of Signature and Deposit: March 25, 2003

Zhibin Ren

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Howard J. Jacob, et al.

Date: March 25, 2003

Serial No.:

09/960,234

Group Art Unit: 1631

Filed:

September 20, 2001

Examiner: Cheyne D. Ly

Title:

Physiological Profiling

File No.: 650053.91657

6 4/6/03

RESPONSE TO RESTRICTION REQUIREMENTS

Commissioner For Patents Washington, DC 20231

Dear Sir:

In response to an office communication dated February 26, 2003 imposing a requirement for restriction and election of species on the applicants in the above-identified application, the applicants hereby elect the invention of Group I (Claims 1-6, 21 and 23) drawn to a method for identifying relationships between physiological determinants within a set of physiological determinants. The election is made with traverse.

The Restriction Requirement is traversed on the basis that restriction requirements are optional in all cases (see MPEP § 803). If the search and examination of a set of claims can be made without serious burden, the Examiner must examine them on the merits, even though they may arguably be directed at distinct or independent inventions (see *id*.). In the present application, it is respectfully submitted that claims in Groups I-VII and Groups VIII-X can be examined, respectively, without serious burden on the Office.

Firstly, claims in Groups II, III and VI are closely linked. Claims in these groups involve similar steps of constructing two clustered correlation matrixes and comparing them. Please note that although Claims 17 and 18 (Group VI) use the language of generating a

physiological profile rather than constructing a clustered correlation matrix, the term physiological profile has been defined as a clustered correlation matrix in the specification (see lines 2-5 on page 9 of the application). A proper search for one group would inevitably overlap with that for the others. Under this circumstance, it is not burdensome on the Office to examine these claims together. On the contrary, it will be unnecessarily burdensome on both the applicants and the Office to consider the highly related subject matter in several separate patent applications.

As an aside, in Group II claims, the two matrixes are constructed with correlation values obtained prior to and during/subsequence to a challenge while in Group III claims, the two matrixes are constructed with correlation values obtained at different time points. It is noted that this difference between Group II and Group III claims are similar to that of Claims 17 and 18. The Examiner has classified Claims 17 and 18 into one single group. This is consistent with the notion that Groups II and III claims should be examined together.

Reclassifying Groups II, III and VI into one single group is respectfully requested.

Secondly, claims in Groups IV and V are closely linked. Claims in Group IV involve classifying organisms by comparing their physiological profiles and claims in Group V involve assigning an organism into a subclass by comparing its physiological profile with profiles of other organisms. A proper search for one group would inevitably overlap with that for the other. Accordingly, it is not burdensome on the Office to examine these claims together. On the contrary, it will be unnecessarily burdensome on both the applicants and the Office to consider the highly related subject matter in several separate patent applications. Reclassifying Groups IV and V into one single group is respectfully requested.

Thirdly, claims in Groups I-VII are closely linked. As discussed above, claims in Groups I-VI all involve generating or using physiological profiles, or both. Group VII claims involve a computer-readable medium containing the above-mentioned physiological profiles. Thus, a proper search for one group of claims would inevitably overlap with that for the others and the search results for one has relevance over the others. Accordingly, examination of claims in all these groups can be conducted without serious burden. On the contrary, it will be unnecessarily burdensome on both the applicants and the Office to consider this highly related subject matter in several separate patent applications. Reclassifying Groups I-VII into one single group is respectfully requested.

Finally, claims in Groups VIII-X are closely linked because they all involve the determination of the allelic status of a hypertension-related gene. Therefore, proper searches for these claims would significantly overlap with each other and the search results for one

group of claims have relevance to the others. Accordingly, examination of all these claims can be conducted without serious burden. Reclassifying Groups VIII-X into one single group is respectfully requested.

For the reasons discussed above, it is requested that the restriction requirement with regard to Groups II, III and VI, Groups IV and V, Groups I-VII, and Groups VIII-X be reconsidered and withdrawn.

Wherefore examination on the merits is respectfully requested.

No extension of time is believed to be necessary and no fee is believed to be due in connection with this response. However, if any extension of time is required in this or any subsequent response, please consider this to be a petition for the appropriate extension and a request to charge the petition fee to the Deposit Account No. 17-0055. No other fee is believed to be due in connection with this response. However, if any fee is due in this or any subsequent response, please charge the fee to the same Deposit Account No. 17-0055.

Respectfully submitted,

Zhibin Ren

Reg. No.: 47,897

Attorney for Applicants

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FEE TRANSMITTAL for FY 2003

(\$) 0.00

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

Complete if Known					
Application Number	09/960,234				
Filing Date	September 20, 2001				
First Named Inventor	Howard J. Jacob				
Examiner Name	Cheyne D. Ly				
Group Art Unit	1631	_			
Attorney Docket No.	650053.91657	_			
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METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)							
Check Credit card Money Other None		3. A	3. ADDITIONAL FEES								
Deposit Account:			Large Entity Small Entity								
Deposit	17-0055		Fee Code	Fee (\$)	Fee Cod	Fee e (\$)	Fee Description	Fee Paid			
Account Number	17-0033		1051	130	2050	65	Surcharge - late filing fee or oath				
Deposit Account Name Quarles & Brady LLP		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet					
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Process	(s) indicated bel		1817	2,520	1812	2,520	For filing a request for ex parte reexamination				
_ ` `	,	s) during the pendency of this applicat	on 1804		1804	920*	Requesting publication of SIR prior to				
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to the above	•	ALCULATION	1805	1,840	1805	1,840*	Requesting publication of SIR after Examiner action	ļ			
1. BASIC F		REGULATION	1251	110	2251	55	Extension for reply within first month				
Large Entity			1252	410	2252	205	Extension for reply within second month	ļ			
Fee Fee	Fee Fee	Fee Description Fee Paid	1253	930	2253	465	Extension for reply within third month .				
Code (\$) 1001 750	Code (\$) 2001 375	Utility filing fee		1,450	2254	725	Extension for reply within fourth month				
1002 330	2002 165	Design filing fee	1255	1,970	2255	985	Extension for reply within fifth month				
1003 520	2003 260	Plant filing fee	1401	320	2401	160	Notice of Appeal				
1004 750	2004 375	Reissue filing fee	1402	320	2402	160	Filing a brief in support of an appeal				
1005 160	2005 80	Provisional filing fee	1403	280	2403	140	Request for oral hearing				
1	ا		1451	1,510	1451	1,510	Petition to institute a public use proceeding				
SUBTOTAL (1) (\$) 0.00		1452	110	2452	5 5	Petition to revive - unavoidable	<u> </u>				
2. EXTRA (CLAIM FEES	FOR UTILITY AND REISSU	E 1453	1,300	2453	650	Petition to revive - unintentional				
		Extra Claims below Fee Pa	i d 1501	1,300	2501	650	Utility issue fee (or reissue)				
Total Claims Independent	-20**		1502	470	2502	235	Design issue fee				
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Laura Francis			1807	50	1807	50	Processing fee under 37 CFR 1.17(q)				
Large Entity Fee Fee	Small Entity Fee Fee	Fee Description	1806	180	1806	180	Submission of Information Disclosure Stmt	<u> </u>			
Code (\$)	Code (\$)	•	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	1			
1202 18	2202 9	Claims in excess of 20	4000	750	2000	275					
1201 84 1203 280	2201 42 2203 140	Independent claims in excess of 3	1809	750	2809	375	Filing a submission after final rejection (37 CFR § 1.129(a))				
1203 280	2203 140	Multiple dependent claim, if not paid ** Reissue independent claims	1810	750	2810	375	For each additional invention to be examined (37 CFR § 1.129(b))				
1207 07	2207 72	over original patent						·			
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	1801		2801	375	Request for Continued Examination (RCE)				
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SUBMITTED BY		Complete (if applicable)			
Name (Print/Type)	Zhibin Ren	Registration No. (Attorney/Agent)	47,897	Telephone	414.277.5633
Signature	300 20		-	Date	March 25, 2003

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